

Claims

I claim:

- 5 1. A mounting device for a piezoelectric transformer comprising:
a stem section for attachment to a printed circuit board; and
a transformer mounting section comprising:
an upper extension for contacting an upper surface of the
piezoelectric transformer;
10 a lower extension for contacting a lower surface of the
piezoelectric transformer; and
wherein the upper and lower extensions together define an opening
for receiving a piezoelectric transformer.
- 15 2. The mounting device of claim 1 wherein the lower extension comprises
a pair of lower extensions.
3. The mounting device of claim 2 wherein the pair of lower extensions
each comprise a tapered portion.
- 20 4. The mounting device of claim 2 wherein the pair of lower extensions
are not flared.
5. The mounting device of claim 1 wherein the transformer mounting
25 section is generally C-shaped.
6. The mounting device of claim 1 wherein the upper extension is flared.
7. The mounting device of claim 1 wherein the lower extension is not
30 flared.

8. The mounting device of claim 1 wherein the device is formed from a single piece of metal.

5 9. The mounting device of claim 1 wherein the upper and lower extensions are each capable of being deflected when the piezoelectric transformer is placed therebetween to provide a holding force upon the piezoelectric transformer.

10 10. A piezoelectric transformer comprising:
a piezoelectric substrate having connection pads for at least an input and output electrical connection;
a mounting device for each of the connection pads, each mounting device comprising:

15 a stem section for attachment to a printed circuit board; and
a transformer mounting section comprising:
an upper extension for contacting an upper surface of the piezoelectric transformer;
a lower extension for contacting a lower surface of the piezoelectric transformer; and
wherein the upper and lower extensions together define an opening for receiving a piezoelectric transformer
20 wherein the mounting devices are the sole means of mechanical support and electrical connection for the piezoelectric transformer to a printed circuit board.

25 11. The piezoelectric transformer of claim 10 wherein the lower extension is soldered to the piezoelectric transformer.

12. The piezoelectric transformer of claim 10 wherein the lower extension comprises a pair of lower extensions.

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13. The piezoelectric transformer of claim 12 wherein the pair of lower extensions is soldered to the piezoelectric transformer.

5 14. The piezoelectric transformer of claim 13 wherein the pair of lower extensions each comprise a tapered portion.

15. The piezoelectric transformer of claim 12 wherein the pair of lower extensions are not flared.

10 16. The piezoelectric transformer of claim 10 wherein the transformer mounting section is generally C-shaped.

15 17. The piezoelectric transformer of claim 10 wherein the upper extension is flared.

18. The piezoelectric transformer of claim 10 wherein the lower extension is not flared.

20 19. The piezoelectric transformer of claim 10 wherein the device is formed from a single piece of metal.

25 20. A mounting device for a piezoelectric transformer comprising:
a stem section for attachment to a printed circuit board; and
a C-Shaped transformer mounting section comprising:
a flared upper extension for contacting an upper surface of the
piezoelectric transformer;
a pair of nonflared lower extension for contacting a lower surface
of the piezoelectric transformer, each lower extension comprising a tapered
portion;
30 wherein the upper and lower extensions together define an opening
for receiving a piezoelectric transformer; and

wherein the upper and lower extensions are each capable of being deflected when a piezoelectric transformer is placed therebetween to provide a holding force upon the piezoelectric transformer.